

Figure 1

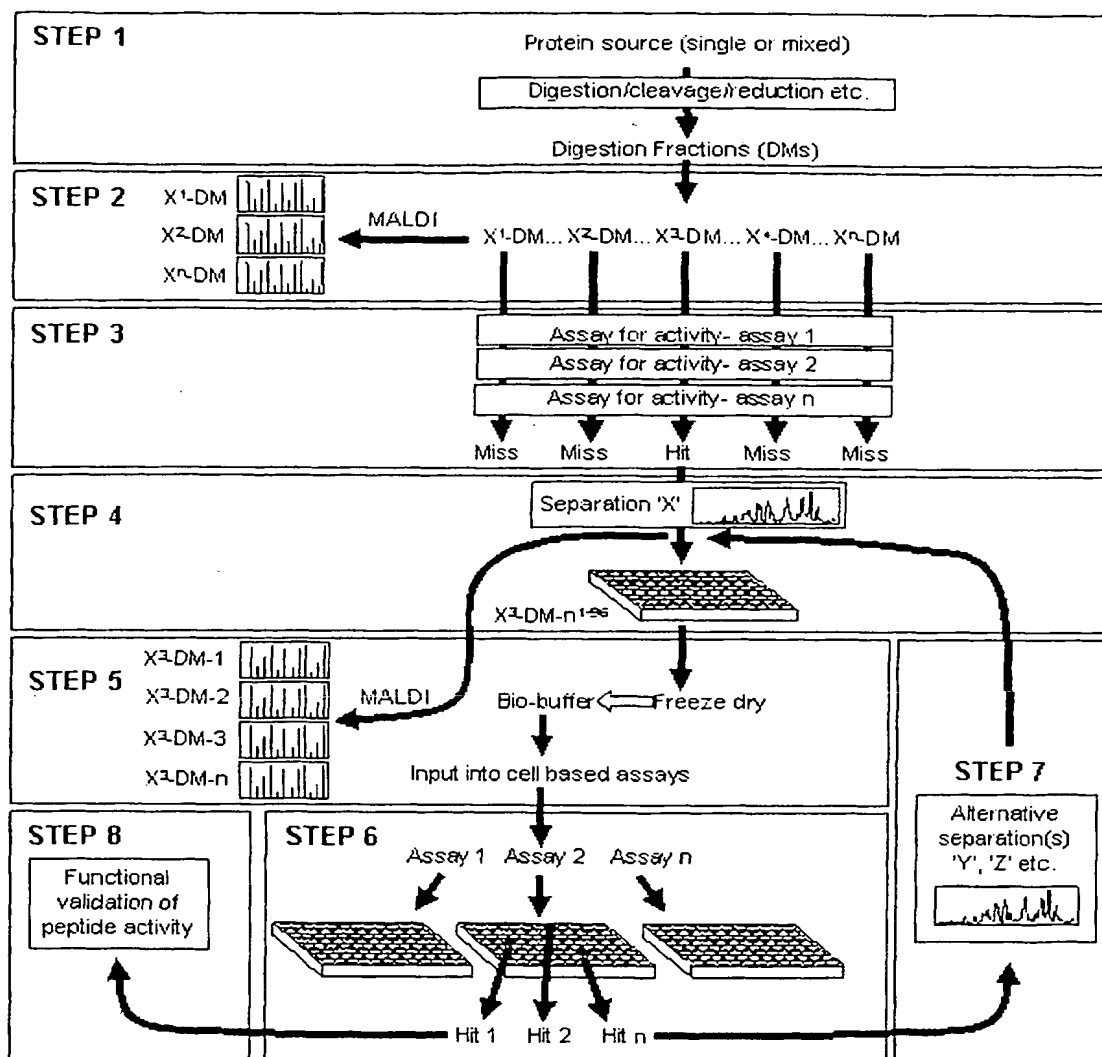


Figure 2

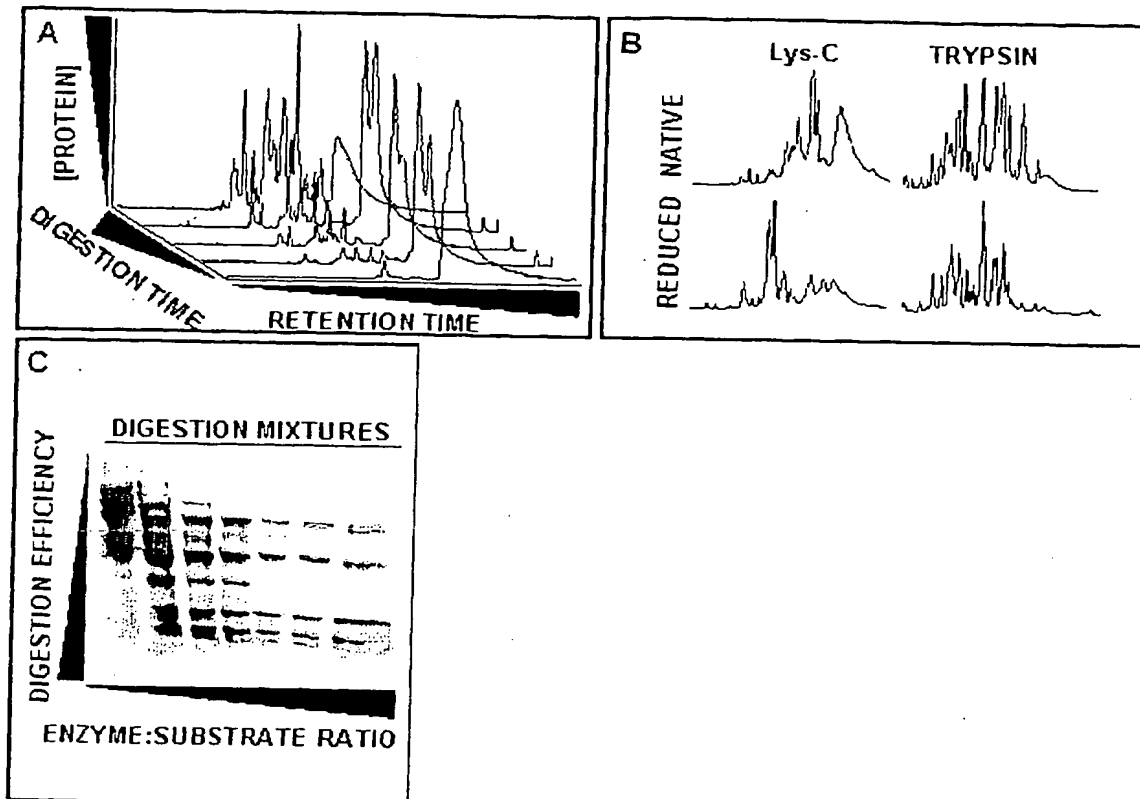


Figure 3

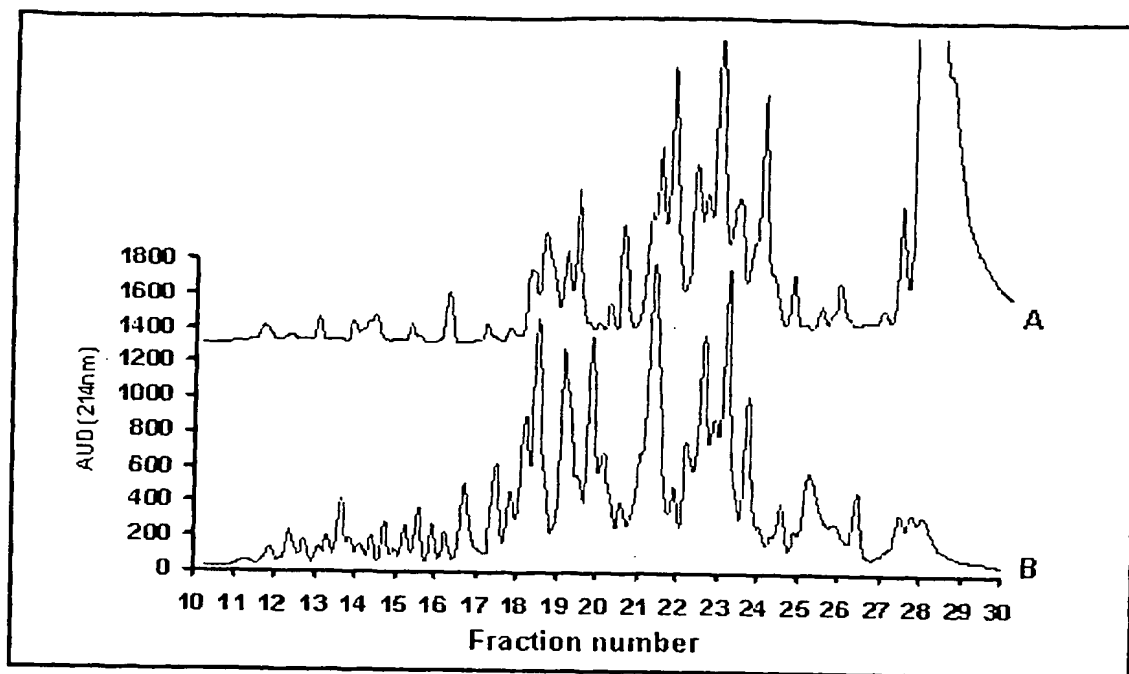


Figure 4

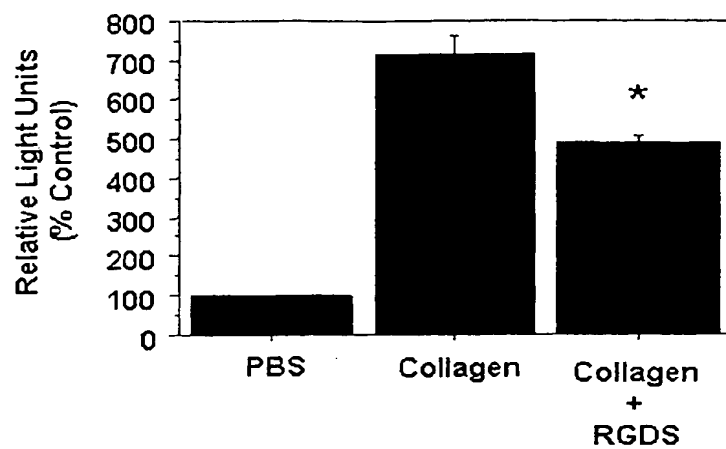


Figure 5

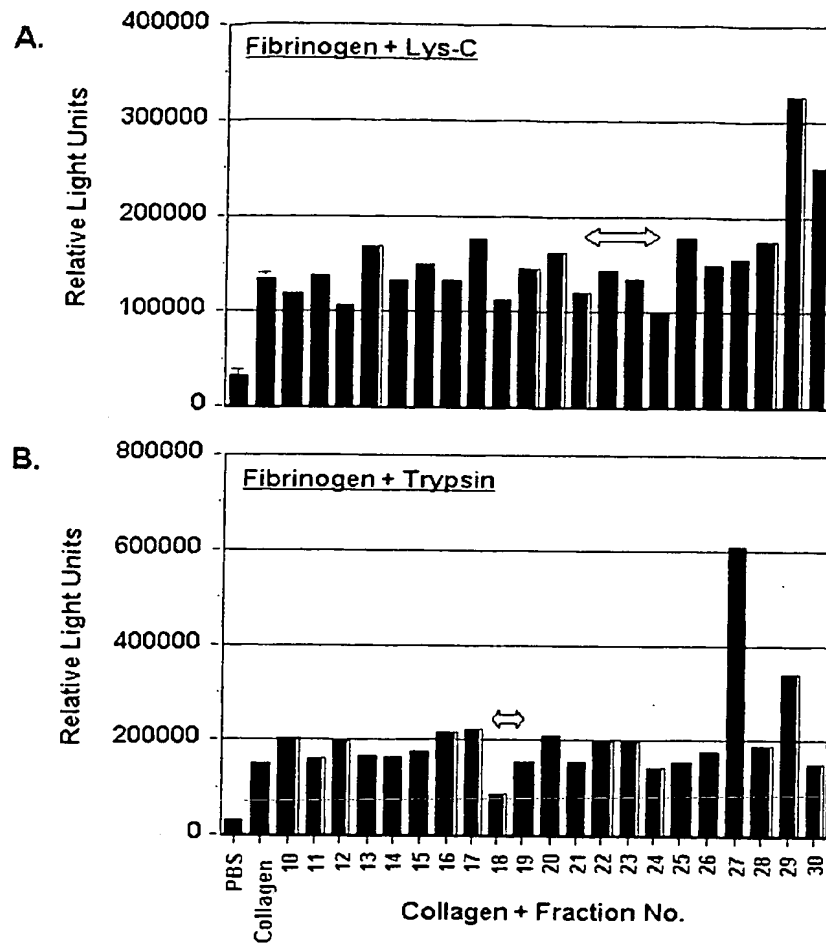


Figure 6

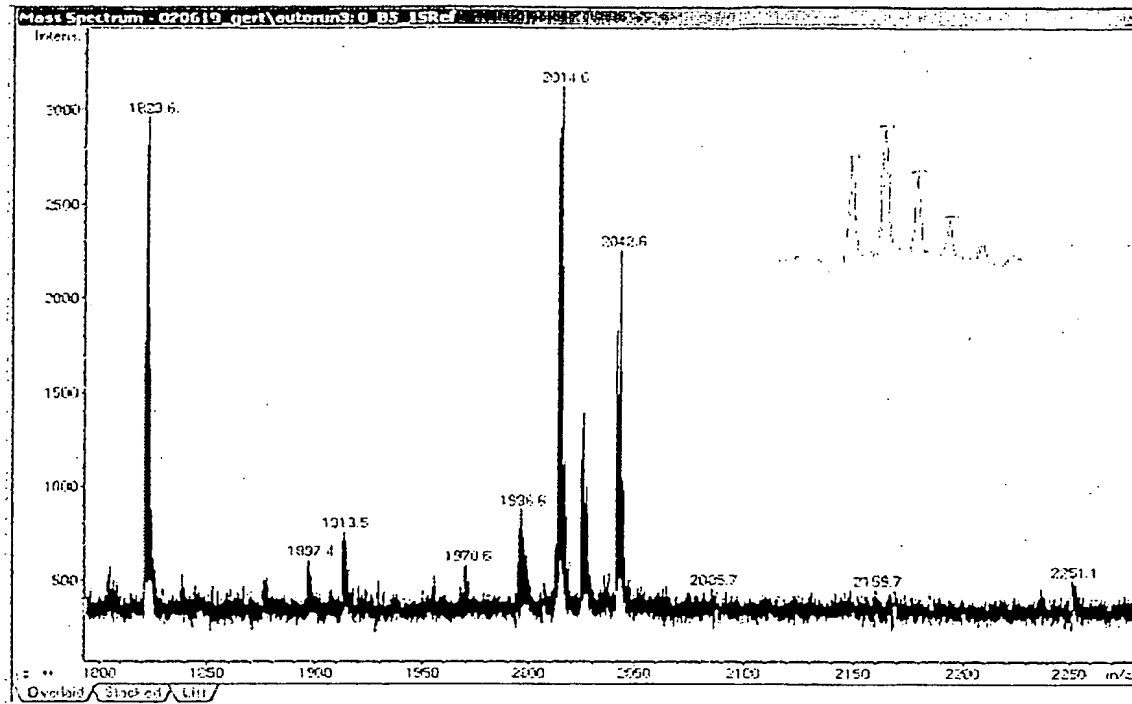


Figure 7

| MAP II/8 Parameters              |          | Spreadsheet Template              |                          | Sample Preparation                          |                                 |
|----------------------------------|----------|-----------------------------------|--------------------------|---|---------------------------------|
| Matrix Solution                  | Matrix:1 | Create Spotting Template          | Create Scouting Template | Transfer                                    | Sample Transfer Volume (uL) 15  |
| On-Target Wash                   | Matrix:2 |                                   |                          | Wash  | On-Target Wash Volume (uL) 3    |
| On-Target Recrystallisation      | Matrix:3 |                                   |                          | Recrystallisation                           | Recrystallisation Volume (uL) 2 |
| Steel Probe Wash #1              | Matrix:4 |                                   |                          |   |                                 |
| Steel Probe Wash #2              | Matrix:5 |                                   |                          |   |                                 |
| Digest Scouting                  | A:17     |                                   |                          |   |                                 |
| Digest Scouting Volume (uL)      | 5        |                                   |                          |   |                                 |
| Pipetting Speed (uL/sec)         | 1        |                                   |                          |   |                                 |
| <b>Dried-Droplet Parameters:</b> |          | <b>Start MAP II/8 Preparation</b> |                          |   |                                 |
| Open                             | Close    | Sample                            | Scout                    |   |                                 |
| Back Airgap Volume (uL)          | 0.5      |                                   |                          |   |                                 |
| Matrix Volume (uL)               | 0.5      |                                   |                          |   |                                 |
| Airgap Volume (uL)               |          |                                   |                          |   |                                 |
| Sample Volume (uL)               | 0.5      |                                   |                          |   |                                 |
| <b>AnchorChip Parameters:</b>    |          |                                   |                          |   |                                 |
| Open                             | Close    | Sample                            | Scout                    |   |                                 |
| Sample Spotting                  |          | Sample Washing                    |                          | Sample Recrystallisation                    |                                 |
| Back Airgap Volume (uL)          | 0.5      | On-Target Wash Volume (uL)        | 2                        | Recrystallisation Volume (uL) 1             |                                 |
| Matrix Volume (uL)               | 0.5      | On-Target Wash Cycles             | 1                        | Back Airgap Volume (uL) 0.5                 |                                 |
| Airgap Volume (uL)               |          | Wait Time Before Wash (sec)       | 20                       | Wait Time Before Recrystallisation (sec) 10 |                                 |
| Sample Volume (uL)               | 0.5      |                                   |                          |   |                                 |
| <b>Thinlayer Parameters:</b>     |          |                                   |                          |   |                                 |
| Open                             | Close    | Sample                            | Scout                    |   |                                 |
| Sample Spotting                  |          | Sample Washing                    |                          |   |                                 |
| Back Airgap Volume (uL)          | 0.5      | On-Target Wash Volume (uL)        | 2                        |   |                                 |
| Thinlayer Volume (uL)            | 1        | On-Target Wash Cycles             | 1                        |   |                                 |
| Sample Volume (uL)               | 0.5      | Wait Time Before Wash (sec)       | 600                      |   |                                 |
| Test Pause Stop                  |          |                                   |                          |   |                                 |

Figure 8

